

30. (New) The document as claimed in claim 29, wherein the deformations are aberrations.

31. (New) The document as claimed in claim 29, wherein the deformations are scattering effects.

32. (New) The document as claimed in claim 29, wherein the hologram is superimposed onto at least one photosensitive layer with a coding function.

33. (New) The document as claimed in claim 32, wherein said photosensitive layer is a diffraction grating.

34. (New) The document as claimed in claim 32, wherein said photosensitive layer contains specific but not personalized data, identical for all documents of a same type.

35. (New) The document as claimed in claim 32, wherein the coding function comprises at least one of the following optical properties: colorimetry with multiple angular ranges of visibility, high-resolution visible with an additional source.

36. (New) The document as claimed in claim 32, wherein the hologram and the photosensitive layer are combined by an anti-peel bonding means.

37. (New) The document as claimed in claim 29, wherein the hologram is transparent so that data located under the hologram, on the document, can be read.

38. (New) The document as claimed in claim 29, wherein the hologram can be read only under lighting of certain wavelengths.

39. (New) The document as claimed claim 29, wherein the hologram can be read at different wavelengths from different angles.

40. (New) The document as claimed claim 29, wherein the hologram is combined with a reflector with narrow band reflectivity.

41. (New) The document as claimed in claim 29, wherein the hologram represents at least one other image appearing in a plane different to that of said deformed copy.

42. (New) The document as claimed in claim 41, wherein said at least one other image can be read at a wavelength different from that of said deformed copy.

43. (New) Document according to claim 29, wherein the hologram comprises data printed on its surface.

44. (New) A document security system, comprising a prerecorded or electrically controllable optical modulator in which an image of at least part of the document is recorded, said modulator configured to be combined with a layer of photosensitive material, at least one first light source configured to transmit a first reference wave to the layer of photosensitive material and a second incident wave onto said modulator and giving rise to a third object wave which is transmitted to the layer of photosensitive material in order to interfere with the reference wave in this layer of photosensitive material, and comprising in a path of the first wave or of the second wave means for inducing scrambling in the hologram recorded in the layer of photosensitive material.

45. (New) The system as claimed in claim 44, further comprising a mirror placed on a side opposite the layer of photosensitive material with respect to the modulator, this mirror receiving the reference wave after passing through the layer of photosensitive material and the modulator and reflecting this reference wave to give rise to the second wave which illuminates the modulator which transmits the third wave to the layer of photosensitive material, the reference and object waves being counter-propagating and perpendicular to planes of the modulator and of the photosensitive layer.

46. (New) The system as claimed in claim 44, further comprising a second source which is coherent like the first source and emitting the second wave, the first and the second

source being located on each side of the modulator assembly and layer of photosensitive material.

47. (New) The system as claimed in claim 44, further comprising, between the modulator and the layer of photosensitive material, an optical device configured to image the modulator in a plane of the layer of photosensitive material.

48. (New) The system as claimed in claim 47, further comprising a beam-splitter plate, the first source supplying the first reference wave to the beam-splitter plate which retransmits this first wave to the layer of holographic material, a second source supplying the second wave, coherent with the first wave, toward the modulator which retransmits the third wave to the layer of holographic material through the optical device and the beam splitter plate.

49. (New) The system as claimed in claim 44, further comprising at least one additional spatial light modulator not located in a plane of said optical modulator and configured to record, in the hologram, at least one additional image appearing, on reading, in a plane different from said image of the part of the document.

50. (New) The system as claimed in claim 49, wherein the additional image and the image of the part of the document are recorded at at least one of different wavelengths and different angles of incidence of the recording beams.

51. (New) The system as claimed in claim 44, wherein the first reference wave and the third object wave are plane, coherent, and collinear waves.

52. (New) The system as claimed in claim 44, wherein said means for inducing scrambling is placed at least substantially against the layer of photosensitive material.